NEVAMERICA

US DEPARTMENT OF ENERGY FIELD OPERATIONS PROGRAM

2002 Global Electronic Motorcars E825 4-Passenger

VEHICLE SPECIFICATIONS

PURPOSE-BUILT VEHICLE
Base Vehicle: 2002 Global Electric Motorcars E825 4-Passenger
VIN: TEST10014P02
Seatbelt Positions: Four
Standard Features:
- Front Wheel Drive
- Four-Wheel Drum Brakes
- Regenerative Braking With Coast Down and Over Speed
- Three-Point Safety Belts
- Speedometer
- Odometer
- State-Of-Charge Meter[2]
- Back-up Alarm
- Traction Control
- On Board Battery Charger

BATTERY
Manufacturer: Trojan
Type: 30XHS Flooded Lead Acid
Number of Modules: 6
Weight of Modules: 30.0 kg
Weight of Pack(s): 180.0 kg
Pack(s) Location: Under Rear Seat and Under Front Hood
Nominal Module Voltage: 12V
Nominal System Voltage: 72V
Nominal Capacity (C/2): 79 Ah

WEIGHTS
Design Curb Weight: 1280 lb
Delivered Curb Weight: 1244 lb
Distribution F/R: 57/43 %
GVWR: 2100 lb
GAWR F/R: 1023/1077 lb
Payload: 831 lb
Performance Goal: 400 lb

DIMENSIONS
Wheelbase: 101.0 inches
Track F/R: 52.5/52.5 inches
Length: 126.0 inches
Width: 55.0 inches
Height: 69.5 inches
Ground Clearance: 5.0 inches
Performance Goal: 5.0 inches

CHARGER
Location: On-board
Type: Conductive
Input Voltages: 115/230 VAC

TIRES
Tire Mfg: Nankang
Tire Model: NY361
Tire Size: 165/70R12
Tire Pressure: 35 psi
Spare Installed: No

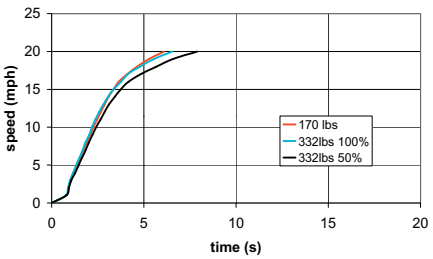
TEST NOTES:

1. Vehicle was operated at maximum attainable speed until 18 mph could no longer be maintained.
2. SOC Meter accuracy did not meet NEVAmerica performance goal. Modifications to be performed by manufacturer. (NCR NTP-007-14P02-002).
3. Rough Road testing showed minor damage to front shocks. Modifications to be performed by manufacturer. (NCR NTP-007-14P02-001)
4. Rough Road testing showed signs of water seepage. Modifications to be performed by manufacturer. (NCR NTP-007-14P02-003)
5. Average handling time was determined by comparing 10 NEVS that were enrolled during the first NEVAmerica Program

This vehicle meets all EV America Minimum Requirements listed on back.
Values in red indicate the Performance Goal was not met. • All Power and Energy Values are DC unless otherwise specified.

PERFORMANCE STATISTICS

Acceleration



Acceleration (0-20 mph) @ 332 lbs Payload
At 100% SOC: 5.5 seconds
At 50% SOC: 6.9 seconds
Performance Goal: 6.0 seconds

Maximum Speed @ 170 lbs Payload
(FMVSS 49 CFR 571.500 S5.a)
At 100%: 23.7 mph
Performance goal ≤ 25 mph

Maximum Speed @ 332 lbs Payload
At 100% SOC: 24.3 mph
At 50% SOC: 23.7 mph

At Maximum Speed Range[1]
Range: 31.4 miles
Energy Used: 3.95 kWh
Average Power: 3.12 kW
Efficiency: 125.7 Wh-DC/mile
Specific Energy: 21.9 Wh/kg

Braking From 20 mph
Controlled Dry: 20 feet
Controlled Wet: 20 feet
Panic Wet: 20 feet
Course Deviation: 0.0 feet

Handling
Average time: 74.4 seconds
Average NEV Time[5]: 77.3 seconds

Gradeability (Calculated)
Maximum Speed @ 3%: 20.7 mph
Maximum Speed @ 6%: 18.0 mph
Maximum Grade: 25.8 %

Charging Efficiency:
Efficiency: 141.2 Wh- AC/mi
Energy Cost: $0.10/kWh: $0.014/mi

Charger
Max Ground Current: <0.01 mA
Max Battery Leakage: <0.01 MIU
Max DC Charge Current: 11.5 A
Max AC Charge Current: 11.6 A
Peak Demand: 971 W
Time to Recharge: 9.4 Hours
Performance Goal: 100% SOC within 12 hours